

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 07150468
PUBLICATION DATE : 13-06-95

APPLICATION DATE : 29-11-93
APPLICATION NUMBER : 05323157

APPLICANT : MITSUBISHI RAYON CO LTD;

INVENTOR : SAKAKURA HIDEO;

INT.CL. : D06M 11/38 D01F 6/62 D01F 6/84 // D06M101:32

TITLE : POLYESTER FIBER AND ITS PRODUCTION

ABSTRACT : PURPOSE: To obtain a polyester fiber having high water-absorptivity and antistaticity and exhibiting unique rayon-like feeling and dry feeling.

CONSTITUTION: This polyester fiber is composed of a polyester containing a specific organic sulfonic acid metal salt and a polyalkylene glycol having an average molecular weight of 5,000-50,000, has a number of continuous linear grooves oriented in the direction of fiber axis, having a width of 0.1-3 μ m and a length of \geq 5 μ m and keeping a space of \leq 5 μ m between the adjacent grooves and contains a number of irregular voids in the fiber in a state partly opened on the fiber surface and accounting for \geq 5% of the total cross-sectional area of the fiber. The fiber can be produced by adding a mixture of an organic sulfonic acid metal salt and a polyalkylene glycol to a polymer before the completion of the polycondensation reaction of the polyester, melt-spinning the obtained polyester, subjecting the obtained fiber to dry-heat treatment at a high temperature and finally thinning the product with an alkali.

COPYRIGHT: (C)1995,JPO